

State of Louisiana Department of Natural Resources Coastal Restoration Division

2007 Annual Inspection Report

Jonathan Davis Wetland Protection

State Project Number BA-20 Priority Project List 2

April 29, 2008 Jefferson Parish

Prepared by:

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I. Introduction

The Jonathan Davis Wetland Protection (BA-20) project is located in Jefferson Parish within the Barataria Basin. It encompasses 7,199 acres (2,880 ha) of wetlands, which were classified as intermediate marsh in 1994 (LDNR 1998). The project is bounded on the north by the Pailet Canal, on the east by La. Hwy. 301, on the south by Bayous Perot and Rigolettes, and on the west by the Gulf Intracoastal Waterway (GIWW) (Appendix A).

II. Project Description and History

Overall, 1,393 ac (557 ha) of land within the Jonathan Davis Wetland Protection project area have been converted to open water between 1945 and 1989 (Coastal Environments Inc. 1991). The average rate of change of marsh to non-marsh (including loss to both open water and commercial development) has increased since the 1940s. National Biological Survey (NBS) Geographic Information System (GIS) habitat data from 1956 characterized the majority of the area as fresh marsh. However, the 1978 and 1990 data indicate that the area has become more saline. In both 1978 and 1990, the area was classified as primarily intermediate marsh. Chabreck and Linscombe (1988) also characterize the area as intermediate marsh.

Large scale factors influencing degradation in the Barataria basin include subsidence, lack of sedimentation, and reduced freshwater influx due to the levee system on the Mississippi River and its major distributaries. To compound this problem, there are no major external sources of inorganic sediment into the project area although some sediment does enter via the GIWW. Moreover, storm surges moving through numerous oil field canals within the area have facilitated the export of a large portion of the indigenous inorganic and organic sediments.

Other factors influencing wetland loss within the project area are increased water exchange, saltwater intrusion, tidal scour, and shoreline erosion along Bayous Perot and Rigolettes. Shoreline erosion from 1945 to 1989 caused primarily by wave action along Bayou Perot has been measured at 20 ft/yr (6.1 m/yr). Saltwater intrusion and tidal scour are believed to have been enhanced with the construction of various oil field canals that were dredged in the 1940s when oil companies were not responsible for maintaining a continuous spoil bank along the canals. As a result, the breaches that occurred were not repaired and subsequently exposed the interior marsh to increased tidal flows and salinity during storm surges.

Project features consist of shoreline protection, rock armored plugs, rock weirs, and weirs with boat bays. Construction Unit 1, which consists of project features 12, 13, 14, 15, 16, 17, 19, 20, and 21, was completed in September 1998. Construction Unit 2 was completed in May 2001. It encompassed installing a weir at structure 22, and shoreline protection from structures 20 to 22. Construction Unit 3, which consists of shoreline

protection extending from project feature 12, west to the Gulf Intracoastal Waterway, was completed on July 7, 2003. Construction of features 1, 2, 3, 6, 8, 9, 10, and 11 in the northern project area has been deferred due to lack of funding, and land rights issues. (Appendix A)

On January 30, 2002, Stone Energy Corporation was issued a Coastal Use Permit to plug and abandon existing wells within the Jonathan Davis Wetland Protection Project. This work was completed on 7/18/02 and consisted of removing and replacing structures 13 & 19 to plug and abandon several existing wells located behind these structures. The cost associated with removing and replacing these structures was incurred entirely by Stone Energy Corporation. However, at the request of NRCS, LDNR was required to provide inspection services for this project. LDNR obtained the services of GSE Associates, Inc. to inspect construction activities and prepare a project completion report and as-built drawings. These services were performed for a total cost of \$9,394.13.

As part of the construction documents prepared by NRCS for this project, Stone Energy Corporation was required to reconstruct structure 13, increasing the boat bay crest from 50' to 100' in width and raising the crest elevation from -5.0' NGVD to -2.5' NGVD.

No other maintenance work has been performed on this project since the completion of Construction Unit 1.

III. Inspection Purpose and Procedures

The purpose of the annual inspection of the Jonathan Davis Wetland Protection (BA-20) project is to evaluate the constructed project features to identify any deficiencies and prepare a report detailing the condition of project features and recommended corrective actions needed. Should it be determined that corrective actions are needed, LDNR shall provide, in the report, a detailed cost estimate for engineering, design, supervision, inspection, and construction contingencies, and an assessment of the urgency of such repairs (O&M Plan March 18, 2002). The annual inspection report also contains a summary of maintenance projects and an estimated projected budget for the upcoming three (3) years for operation, maintenance and rehabilitation. The three (3) year projected operation and maintenance budget is shown in Appendix C. A summary of past operation and maintenance projects completed since completion of the project are outlined in Section II.

An inspection of the Jonathan Davis Wetland Protection (BA-20) project was held on March 27, 2007 by Barry Richard of LDNR and Michael Trusclair of NRCS. There was a light southeast wind and the tide gage, which is located approximately 0.8 miles north of C&M Marina on the east bank of the Barataria Bay Waterway, read approximately +0.5 feet NAVD. Photographs of that inspection are included in Appendix B of this report.

IV. Inspection Results

Construction Unit No. 1

Structure No. 12 – Rock rip-rap armored plug

The structure is in good condition. (Photo #1) There is some slight settling near the edge of the plug adjacent to the two signs. All of the signs and supports were in good condition. At this time there is no need for any maintenance work to be done at this structure.

Structure No. 13 – Rock rip-rap armored weir w/ boat bay

We observed slight settlement on the west side of the structure 13. All signs and supports were also in good condition. No maintenance will be required at this time.

Structure No. 14 – Rock rip-rap armored plug

Upon a visual inspection, we noticed a large breach on the west side of the structure (Photo #2). Due to poor soil conditions, this structure has experienced significant settlement problems since the time it was constructed. Several attempts were made during construction to stabilize the structure by placing several lifts of rock, but the structure continued to settle. The maintenance work for this structure will be performed during the construction of Construction Unit 4 (CU 4).

Structure No. 15 – Rock rip-rap weir w/ boat bay

Structure 15 appeared to be in good condition at the time of the inspection with little or no noticeable settlement of the rock weir (Photo #3). Signs and supports were also in good condition. The original design of this structure was modified to include a boat bay to accommodate oilfield activities and navigation on the interior marsh of the structure. During the construction of CU 4, this structure will be modified so that it represents the original design more accurately.

Structure No. 16 – Rock rip-rap channel plug

Structure 16 appeared to be in good condition with exception of a low area on the south side of the channel plug. The maintenance work for this structure will be performed during the construction of CU4.

Structure No. 17 – Rock rip-rap channel plug

During the inspection, we observed significant settlement near the warning sign on the south side of the structure and just east of the warning sign on the north side of the structure (Photo #4). The maintenance work for this structure will be performed during the construction of CU 4.

Structure No. 19 – Rock rip-rap weir w/ boat bay

Structure 19 appeared to be in good condition with little signs of settlement of the rock weir. The warning signs and supports were also in good condition. NRCS and DNR agree that this structure will not require maintenance.

Structure No. 20 – Rock rip-rap armored plug

The structure appeared to be in good condition with no signs of settlement of the rock weir. The warning signs and supports were also in good condition. NRCS and DNR agree that this structure will not require maintenance.

Structure No. 21 – Rock rip-rap armored plug

The rock armored plug appeared to be in good condition with slight settlement on the east side of the structure. This was hard to fully assess due to the amount of growth on the structure. LDNR and NRCS agree that the structure will not require maintenance at this time.

Construction Unit No.2

Structure No. 22 A – Canal bank stabilization

The structure looked to be in good condition. There were very few signs of settlement along the bank stabilization. LDNR and NRCS agree that maintenance of this structure is not needed at this time.

Structure No.22 – Steel sheet pile weir w/ boat bay

The structure itself appears to be in good condition along with the signs, supports, and sheet pile caps (Photo #5). LDNR and NRCS agree that this structure will require no work at this time.

Bayou Rigolettes Bank Stabilization

The rock dike along the northern shore of Bayou Rigolettes appeared to be in good condition with a few signs of settlement. Maintenance work will not be needed at this time.

Construction Unit No.3

Bayou Perot Bank Stabilization

The Bayou Perot Bank Stabilization looks good. There was some erosion noticed at the western most portion of the West Reach of the structure (Photo #6). There was also some settlement noticed between Sta. 90+00 and 92+00. The maintenance work for this structure will be performed during the construction of CU4.

V. Conclusions

Overall this project has proven very effective in reducing shoreline erosion. With the exception of the few soft spots where the dike is experiencing more rapid settlement, the structure has proven very stable. The erosion at the end of Construction Unit 3 will continue to be monitored. The project features mentioned above will all be tied together with the construction of Construction Unit 4 which will provide a stronger, more stable shoreline protection system.

VI. Recommendations

There is no need for any maintenance activity at this time.

Immediate Repairs

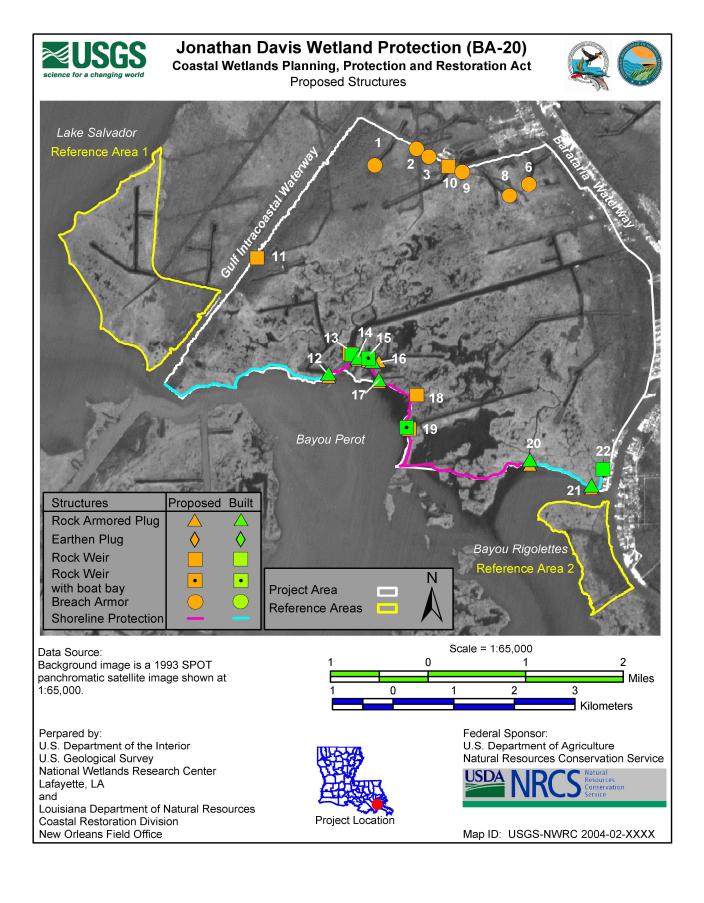
• None at this time.

Programmed Maintenance

• The repairs noted at each structure will be included in the plans for Construction Unit 4. The work to be done will be paid for using the construction funds for Construction Unit 4.

Appendix A

Project Features Map



Appendix B

Photographs



Photo #1 – Structure #12



Photo #2 - Structure #14 (Note Gap on Left)



Photo #3 – Structure #15



Photo #4 – Structure #17



Photo #5 – Structure #22



Photo #6 – West End of CU 3 (Note Errosion)

Appendix C

Three Year Budget Projection

Jonathan Davis Wetland Restoration Project / BA-20 / PPL NO. 2

Three-Year Operations & Maintenance Budgets 07/01/2008 - 06/30/2011

Project Manager	O & M Manager	Federal Sponsor	Prepared By
Barry Richard	Barry Richard	NRCS	Barry Richard
Maintenance Inspection General Maintenance Structure Operation Administration Maintenance/Rehabilitation 08/09 Description:	2008/2009 \$3,517.00 \$0.00 \$0.00 \$0.00	\$3,609.00 \$0.00 \$0.00 \$0.00	2010/2011 \$3,703.00 \$0.00 \$0.00 \$0.00
E&D Construction Construction Oversight Sub Total - Maint. And Rehab. 09/10 Description: Cap Rock Struction	\$0.00 \$0.00 \$		
09/10 Description. Oap Hock Struc	luies		
E&D Construction Construction Oversight	Sub Total - Maint. And Rehab.	\$0.00 \$0.00 \$0.00 \$	
10/11 Description:			
E&D Construction Construction Oversight		Sub Total - Maint. And Rehab.	\$0.00 \$0.00 \$0.00 \$ -
	2008/2009	2009/2010	2010/2011
Total O&M Budgets	\$ 3,517.00	\$ 3,609.00	\$ 3,703.00
O &M Budget (3 yr Tota Unexpended O & M Budget Remaining O & M Budget	\$ 10,829.00 \$ 7,239,987.70 \$ 7,229,158.70		

OPERATION AND MAINTENANCE BUDGET WORKSHEET 2008/2009

Jonathan Davis Wetland Restoration Project / BA-20 / PPL NO. 2

DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	ESTIMATED Total
O&M Inspection and Report	EACH	1	\$3,517.00	\$3,517.00
General Structure Maintenance	LUMP	1	\$0.00	\$0.00
Engineering and Design	LUMP	1	\$0.00	\$0.00
Operations Contract	LUMP	1	\$0.00	\$0.00
Construction Oversight	LUMP	1	\$0.00	\$0.00
	ADI	MINISTRAT	ION	
LDNR / CRD Admin.	LUMP	0	\$0.00	\$0.00
FEDERAL SPONSER Admin.	LUMP	0	\$0.00	\$0.00
SURVEY Admin.	LUMP	0	\$0.00	\$0.00
OTHER				\$0.00
	\$0.00			

MAINTENANCE / CONSTRUCTION

SURVEY

	SURVEY				
SURVEY DESCRIPTION:					
	Secondary Monument	EACH	0	\$0.00	\$0.00
	Staff Gauge / Recorders	EACH	0	\$0.00	\$0.00
	Marsh Elevation / Topography	LUMP	0	\$0.00	\$0.00
	TBM Installation	EACH	0	\$0.00	\$0.00
	OTHER				\$0.00
		TAL SUBVEY COSTS:	\$0.00		

GEOTECHNICAL

GEOTECH DESCRIPTION:					
•	Borings	EACH	0	\$0.00	\$0.00
	OTHER				\$0.00
		\$0.00			

	CONSTRUCTION					
CONSTRUCTION						
DESCRIPTION:	Rip Rap	LIN FT	TON / FT	TONS	UNIT PRICE	
	Νίρ παρ					Φ0.00
		0	0.0	0	\$0.00	\$0.00
		0	0.0	0	\$0.00	\$0.00
		0	0.0	0	\$0.00	\$0.00
	Filter Cloth / Geogrid Fabric		SQ YD	0	\$0.00	\$0.00
	Navagation Aid		EACH	0	\$0.00	\$0.00
	Signage		EACH	0	\$0.00	\$0.00
	General Excavation / Fill		CU YD	0	\$0.00	\$0.00
	Dredging		CU YD	0	\$0.00	\$0.00
	Sheet Piles (Lin Ft or Sq Yds)			0	\$0.00	\$0.00
	Timber Piles (each or lump sum)			0	\$0.00	\$0.00
	Timber Members (each or lump sum)			0	\$0.00	\$0.00
	Hardware		LUMP	1	\$0.00	\$0.00
	Materials		LUMP	1	\$0.00	\$0.00
	Mob / Demob		LUMP	1	\$0.00	\$0.00
	Contingency		LUMP	1	\$0.00	\$0.00
	General Structure Maintenance		LUMP	1	\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
				TOTAL CO	NSTRUCTION COSTS:	

TOTAL OPERATIONS AND MAINTENANCE BUDGET:

OPERATION AND MAINTENANCE BUDGET WORKSHEET 2009/2010

Jonathan Davis Wetland Restoration Project / BA-20 / PPL NO. 2

DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	ESTIMATED Total
O&M Inspection and Report	EACH	1	\$3,609.00	\$3,609.00
General Structure Maintenance	LUMP	1	\$0.00	\$0.00
Engineering and Design	LUMP	1	\$0.00	\$0.00
Operations Contract	LUMP	1	\$0.00	\$0.00
Construction Oversight	LUMP	1	\$0.00	\$0.00
	ADI	MINISTRAT	ION	
LDNR / CRD Admin.	LUMP	1	\$0.00	\$0.00
FEDERAL SPONSER Admin.	LUMP	1	\$0.00	\$0.00
SURVEY Admin.	LUMP	1	\$0.00	\$0.00
OTHER				\$0.00
	\$0.00			

MAINTENANCE / CONSTRUCTION

SURVEY

	SURVEY				
SURVEY DESCRIPTION:					
DESCRIFTION.	0 1 14	E4.011	_	40.00	40.00
	Secondary Monument	EACH	0	\$0.00	\$0.00
	Staff Gauge / Recorders	EACH	0	\$0.00	\$0.00
	Marsh Elevation / Topography	LUMP	0	\$0.00	\$0.00
	TBM Installation	EACH	0	\$0.00	\$0.00
	Structure Survey	LUMP	1	\$0.00	\$0.00
		•	TC	TAL SURVEY COSTS:	\$0.00

GEOTECHNICAL

GEOTECH					
DESCRIPTION:					
•	Borings	EACH	0	\$0.00	\$0.00
	OTHER				\$0.00
	TOTAL GEOTECHNICAL COSTS				\$0.00

CONSTRUCTION

	CONSTRUCTION					
CONSTRUCTION DESCRIPTION:						
	Rip Rap	LIN FT	TON / FT	TONS	UNIT PRICE	
		0	0.0		\$0.00	\$0.00
		0	0.0	0	\$0.00	\$0.00
		0	0.0	0	\$0.00	\$0.00
	Filter Cloth / Geogrid Fabric		SQ YD	0	\$0.00	\$0.00
	Navagation Aid		EACH	0	\$0.00	\$0.00
	Signage		EACH	0	\$0.00	\$0.00
	General Excavation / Fill		CU YD	0	\$0.00	\$0.00
	Dredging		CU YD	0	\$0.00	\$0.00
	Sheet Piles (Lin Ft or Sq Yds)			0	\$0.00	\$0.00
	Timber Piles (each or lump sum)			0	\$0.00	\$0.00
	Timber Members (each or lump sum)			0	\$0.00	\$0.00
	Hardware		LUMP	1	\$0.00	\$0.00
	Materials		LUMP	1	\$0.00	\$0.00
	Mob / Demob		LUMP	1	\$0.00	\$0.00
	Contingency		LUMP	1	\$0.00	\$0.00
	General Structure Maintenance (cap 159	%)	LUMP	1	\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
				TOTAL CO	NSTRUCTION COSTS:	\$0.00

TOTAL OPERATIONS AND MAINTENANCE BUDGET:

\$3,609.00

OPERATION AND MAINTENANCE BUDGET WORKSHEET 2010/2011

Jonathan Davis Wetland Restoration Project / BA-20 / PPL NO. 2

DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE	ESTIMATED TOTAL
O&M Inspection and Report	EACH	1	\$3,703.00	\$3,703.00
General Structure Maintenance	LUMP	1	\$0.00	\$0.00
Engineering and Design	LUMP	1	\$0.00	\$0.00
Operations Contract	LUMP	1	\$0.00	\$0.00
Construction Oversight	LUMP	1	\$0.00	\$0.00
	ADI	MINISTRAT	ION	
LDNR / CRD Admin.	LUMP	0	\$0.00	\$0.00
FEDERAL SPONSER Admin.	LUMP	0	\$0.00	\$0.00
SURVEY Admin.	LUMP	0	\$0.00	\$0.00
OTHER				\$0.00
	\$0.00			

MAINTENANCE / CONSTRUCTION

SURVEY

	JOHVET					
SURVEY DESCRIPTION:						
	Secondary Monument	EACH	0	\$0.00	\$0.00	
	Staff Gauge / Recorders	EACH	0	\$0.00	\$0.00	
	Marsh Elevation / Topography	LUMP	0	\$0.00	\$0.00	
	TBM Installation	EACH	0	\$0.00	\$0.00	
	OTHER				\$0.00	
	TOTAL SURVEY COSTS:				\$0.00	

GEOTECHNICAL

GEOTECH DESCRIPTION:					
	Borings	EACH	0	\$0.00	\$0.00
	OTHER				\$0.00
			TOTAL GE	OTECHNICAL COSTS:	\$0.00

	CONSTRUCTION					
CONSTRUCTION DESCRIPTION:						
	Rip Rap	LIN FT	TON / FT	TONS	UNIT PRICE	
		0	0.0	0	\$0.00	\$0.00
		0	0.0	0	\$0.00	\$0.00
		0	0.0	0	\$0.00	\$0.00
	Filter Cloth / Geogrid Fabric		SQ YD	0	\$0.00	\$0.00
	Navagation Aid		EACH	0	\$0.00	\$0.00
	Signage		EACH	0	\$0.00	\$0.00
	General Excavation / Fill	CU YD	0	\$0.00	\$0.00	
	Dredging	CU YD	0	\$0.00	\$0.00	
	Sheet Piles (Lin Ft or Sq Yds)			0	\$0.00	\$0.00
	Timber Piles (each or lump sum)			0	\$0.00	\$0.00
	Timber Members (each or lump sum)			0	\$0.00	\$0.00
	Hardware		LUMP	1	\$0.00	\$0.00
	Materials		LUMP	1	\$0.00	\$0.00
	Mob / Demob		LUMP	1	\$0.00	\$0.00
	Contingency		LUMP	1	\$0.00	\$0.00
	General Structure Maintenance		LUMP	1	\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
	OTHER				\$0.00	\$0.00
				TOTAL CO	NSTRUCTION COSTS:	\$0.00

TOTAL OPERATIONS AND MAINTENANCE BUDGET:

Appendix D

Field Inspection Form

Project No. / Na	me: BA-20 Jonath	nan Davis Wetland		Date of Inspection: <u>3/27/2007</u> Time: <u>9:30 am</u>				
Structure No	Construction U	nit No.1 -Site No. 12			Inspector(s): Richard, Trusclair			
Structure Descri	ption: Rock rip-ra	p armored plug		Water Level	Inside: N/A	Outside: Approx. 0.5 ft		
Type of Inspect	ion: Annual, Post	Storm, other	<u>Annual</u>		Weate	er Conditions: <u>Clear</u>	Skies, Light Wind	
Item	Condition	Pysical Damage	Corrosion	Photo #	0	bservations and Rer	marks	
Signage and supports	Good			1				
					Observations:			
Armored Plug	Good			1	There have been no changes sin NRCS and DNR agree that no magnetic transfer in the same of			
Earthen								
Embankment	Good			1				
Construction Un	it No.1							
Structure Descrip	tion: 294 linear ft. r	ock rip-rap armored ro	ck-filled plug lo	cated in a				
		t, west of Bayou Barata evation of +3.9 ft. NGV						
contains 2,689 to	ns of rock filled with	2,518 tons of rip-rap a	rmor. Aluminum					
warning signs are	also located throug	h the rock embankmer	nt.					

Project No. / Name: **BA-20 Jonathan Davis Wetland**Date of Inspection: 3/27/2007

Time: 9:30 am

Structure No. Construction Unit No.1 - Site No. 13 Inspector(s): Richard, Trusclair

Structure Description: Rock rip-rap armored weir Water Level Inside: N/A Outside: Approx. 0.5 ft

Item	Condition	Pysical Damage	Corrosion	Photo #	Observations and Remarks
Signage and					Observations:
supports	Good				There have been no changes since the last inspection. NRCS and DNR
					agree that this structure is in good condition and will not require maintenance at
Armored Plug					this time.
	Good				
Earthen					
Embankment	Good				
Construction Uni	t No.1				
Structure Descript	ion: 300 linear ft. ro	ock rip-rap armored ro	ck filled weir wit	th a 50 ft.	
wide boat bay loca	ated north of Bayou I	Perot and Site 12, wes	st of Bayou Bara	ataria, and	
east of the GIWW	. The crest of the we	eir is set at an elevatio	n of +1.0 ft. NG	VD. The	
invert of the boat b	oay is set at an eleva	ation of -5.0 ft. NGVD.	Rock wingwalls	s were	
constructed to an elevation of +3.6 ft. NGVD. On the west side and +4.0 ft. NGVD				NGVD	
on the east side of	f the weir. The rock f	filled weir contains 1,0	93 tons of rock	fill and	
772 tons of rip-rap	armor. Aluminum w	arning signs are locat	ed adjacent to t	the	
structure.					

Project No. / Name: **BA-20 Jonathan Davis Wetland**Date of Inspection: 3/27/2007

Time: 9:30 am

Structure No. Construction Unit No.1 - Site No. 14 Inspector(s): Richard, Trusclair

Structure Description: Rock rip-rap armored plug Water Level Inside: N/A Outside: Approx. 0.5 ft

Item	Condition	Pysical Damage	Corrosion	Photo #	Observations and Remarks
Signage and					Observations:
supports	Good			2	There have been no changes since the last inspection. The work to be done
					through the CU4 Construction Contract has not been completed due to contract
Armored Plug					issues.
J	Poor			2	
Earthen					
Embankment	Fair			2	
Construction Un					
•		rock rip-rap armored		. •	
		Bayou Perot, west of E	•		
		e plug was constructed			
	. •	,580 tons of rock fill ar			
ip-rap armor. Alu	minum warning sign	s are located through	the rock emban	kment.	

Project No. / Name: **BA-20 Jonathan Davis Wetland**Date of Inspection: 3/27/2007

Time: 9:30 am

Structure No. Construction Unit No.1 - Site No. 15 Inspector(s): Richard, Trusclair

Structure Description: Rock rip-rap armored weir w/ boat bay Water Level Inside: N/A Outside: Approx. 0.5 ft

Item	Condition	Pysical Damage	Corrosion	Photo #	Observations and Remarks
Signage and supports	Good			3	Observations: There have been no changes since the last inspection. The work to be done
Armored Plug	Good			3	through the CU4 Construction Contract has not been completed due to contract issues.
Rock weir	Good			3	Remarks:
Earthen Embankment	Good			3	The original design of this structure was modified to a rock weir with boat bay to accommodate oilfield activities and navigation on the interior of the structure. During above mentioned maintenance this structure will be converted to a rock
boat bay located in and east of the Government of the Government of the Government of the rock filled we armor. Two (2) also boat bay located in the second of the Government	tion: 132 linear ft. of in a pipeline channel IWW and Site 14. Th ft. NGVD. The invert ir contains 1,248 ton	rock rip-rap armored north of Bayou Perot, ne crest of the rock we of the boat bay is at a s of rock fill with and 7 as are located through bay.	west of Bayou ir was construct and elevation of 28 tons of rock	Barataria ted to an -3.0 ft. rip-rap	

Project No. / Name: **BA-20 Jonathan Davis Wetland**Date of Inspection: 3/27/2007

Time: 9:30 am

Structure No. Construction Unit No.1 -Site No. 16 Inspector(s): Richard, Trusclair

Structure Description: Rock rip-rap armored plug Water Level Inside: N/A Outside: Approx. 0.5 ft

Item	Condition	Pysical Damage	Corrosion	Photo #	Observations and Remarks
Signage and	_				
supports	Good				
Armored Plug					Observation:
, amorou riag	Fair				There have been no changes since the last inspection. The work to be done
	1 4.11				through the CU4 Construction Contract has not been completed due to contract
Earthen					issues.
Embankment	Good				
					Remarks:
Construction Uni	it No.1				
		ock filled plug located	in a pipeline cha	annel	
		Sarataria, east of the G			
1	•	n elevation of +4.0 ft. I			
		d 1,766 tons of rock ri			
. •		rough the rock plug e		()	

Project No. / Name: **BA-20 Jonathan Davis Wetland**Date of Inspection: 3/27/2007

Time: 9:30 am

Structure No. Construction Unit No.1 - Site No. 17 Inspector(s): Richard, Trusclair

Structure Description: Rock rip-rap armored plug Water Level Inside: N/A Outside: Approx. 0.5 ft

Item	Condition	Pysical Damage	Corrosion	Photo #	Observations and Remarks
Signage and supports	Good			4	
Armored Plug	Fair			4	Observation: There have been no changes since the last inspection. The work to be done through the CU4 Construction Contract has not been completed due to contract
Earthen Embankment	Good			4	issues. Remarks:
in a pipeline chanr the GIWW. The cr rock filled plug cor	ion: 197 linear ft. o nel north of Bayou P rest of the plug was ntains2,253 tons of r g signs supported by	f rock rip-rap armored erot, west of Bayou Ba constructed to an elev ock fill and 1,201 tons galvanized pipe are le	arataria, and ea ration of 3.8' NA of rock rip-rap	st of VD. The armor.	

Project No. / Name: **BA-20 Jonathan Davis Wetland**Date of Inspection: 3/27/2007

Time: 9:30 am

Structure No. Construction Unit No.1 - Site No. 19 Inspector(s): Richard, Trusclair

Structure Description: Rock rip-rap armored weir Water Level Inside: N/A Outside: Approx. 0.5 ft

Item	Condition	Pysical Damage	Corrosion	Photo #	Observations and Remarks
Signage and supports	Good				Observation:
Armored Plug	Good				There have been no changes since the last inspection. NRCS and DNR agree that this structure does not need maintenance at this time.
Earthen Embankment	Good				
Construction Unit No.1 Structure Description: 239 linear ft. of rock rip-rap armored rock filled fixed crest weir with a 60 ft. wide boat bay located in a pipeline channel east of the GIWW, north of Bayou Perot, and west of Bayou Barataria. The crest of the weir was constructed to an elevation of +1.9 ft. NGVD on the north side and +2.0 ft. NGVD on the south. The boat bay invert was constructed to an elevation of -2.5 ft. NGVD. The rock filled plug contains 1,014 tons of rock fill with 572 tons of rock rip-rap armor. Aluminum waring signs are located on each side of the barge bay through the rock embankment.				VW, north structed south. The illed plug n waring	

Structure Description: 170 linear ft. of rock rip-rap armored rock filled plug located north of Bayou Rigolettes, west of Bayou Barataria, and east of Bayou Perot. The plug crest was constructed to an elevation of +4.0 ft. NGVD. The rock filled plug contains 1,829 tons of rock fill with 795 tons of rock rip-rap armor. Two (2) aluminum warning signs are located on each end of the structure through the

armored rock plug embankment.

MAINTENANCE INSPECTION REPORT CHECK SHEET

Project No. / Na	me: BA-20 Jonath	an Davis Wetland			Date of Inspection: <u>3/27/2007</u> Time: <u>9:30 am</u>				
Structure No	Site No. 20- C	onstruction Unit No.2	2		Inspector(s): Richard, Trusclair				
Structure Descri	ption: Rock rip-rap	o armored plug			Water Level	Inside: N/A	Outside: Approx. 0.5 ft		
Type of Inspect	ion: Annual, Post S	Storm, other	<u>Annual</u>		Weater Conditions: Clear Skies, Light Wind				
Item	Condition	Pysical Damage	Corrosion	Photo #	0	bservations and Rei	marks		
Signage and supports	Good								
Armored Plug					Observation:				
	Good				There have been no changes since the last inspection. No maintenance				
					required at this time. Will monitor	r this structure on futu	re site visits.		
Earthen Embankment	Good								
	0.000								
							<u> </u>		
Construction Un	it No.1								

Project No. / Nar	ne: BA-20 Jonath	nan Davis Wetland			Date of Inspection: <u>3/27/2007</u> Time: <u>9:30</u>			
Structure No.	Site No. 21 - 0	Construction Unit No.	2		Inspector(s): Richard, Trusclair			
Structure Descrip	otion: Rock rip-ra	o armored plug			Water Level	Inside: N/A	Outside: Approx. 0.5 ft	
Type of Inspecti	on: Annual, Post S	Storm, other	<u>Annual</u>	Weat	er Conditions: <u>Clear</u>	Skies, Light Wind		
Item	Condition	Pysical Damage	Corrosion	Photo #	C	bservations and Ren	narks	
Signage and								
* *	Good							
Armored Plug					Observation:			
_	Good				There have been no changes sir	nce the last inspection.	No maintenance will	
					be required at this time.			
Earthen								
Embankment	Good							
Construction Uni	t No 1							

Structure Description: 83 linear ft. of rock rip-rap armored rock filled plug located north of Bayou Rigolettes, west of Bayou Barataria, and east of Bayou Perot. The plug crest was constructed to an elevation of +4.0 ft. NGVD. The rock filled plug contains 285 tons of rock fill and 220 tons of rock rip-rap armor. Two (2) aluminum warning signs supported by galvanized pipe are located on each end of the structure through the rock embankment.

Project No. / Name: BA-20 Jonathan Davis Wetland

Structure No. Site No. 22A - Construction Unit No.2

Structure Description: Canal Bank Stabilization

Date of Inspection: 3/27/2007

Inspector(s): Richard, Trusclair

Water Level Inside: N/A Outside: Approx. 0.5 ft

Item	Condition	Pysical Damage	Corrosion	Photo #	Observations and Remarks
Signage and supports	Good				Observation:
Rock Armored Bank	Good				There have been no changes since the last inspection. No maintenance is required at this time.
Earthen Embankment	Good				
rip-rap protection of	ion: Canal bank sta	abilization consisting o the access channel at red to an elevation of	the Baltazaar F		

MAINTENANCE INSPECTION REPORT CHECK SHEET

Project No. / Name: **BA-20 Jonathan Davis Wetland**Date of Inspection: 3/27/2007

Time: 9:30 am

Structure No. Site No. 22 - Construction Unit No.2 Inspector(s): Richard, Trusclair

Structure Description: Steel sheet pile structure w/ boat bay

Water Level Inside: N/A Outside: Approx. 0.5 ft

Item	Condition	Pysical Damage	Corrosion	Photo #	Observations and Remarks
Steel Bulkhead					
/ Caps	Good			5	
Handrails					Observation:
Hardware, etc.	Good			5	There have been no changes since the last inspection. No maintenance
					required at this time.
Signage and					
supports	Good			5	
Rock weir					
	Good			5	
Earthen					
Wingwalls	Good			5	
Rock Armored				_	
Earthen	Good			5	
Embankment		_			
Construction Uni					
		steel sheet pile bulkhe			
of +1.95 ft. and a 24' - 8-1/2" wide boat bay with a crest elevation of -0.93 ft. located					
off of Bayou Regolettes, west of Bayou Barataria and east of GIWW. The structure					
consists of a steel sheet pile weir with 1,426 square feet of sheet piling set at +1.95 ft.					
At the bottom the boat bay, is a 1.5 ft. thick rock rip-rap scour pad seciton with an					
invert of -0.93 ft. This structure ties into structure 22A on the west side. Aluminum					
warning signs supported by 12" diameter timber piles are located at the entrance					
of the boat bay.					

Project No. / Name: BA-20 Jonathan Davis Wetland	Date of Inspection: 3/27/2007	rime: <u>9:30 am</u>
Structure No. Construction Unit No.2	Inspector(s): Richard, Truse	<u>plair</u>
Structure Description: Rock dike along Bayou Rigolettes	Water Level Inside: N/A Ou	ıtside: Approx. 0.5 ft

Item	Condition	Pysical Damage	Corrosion	Photo #	Observations and Remarks
Signage and					
supports	Good				
Armored Plug					
, amorou riug	Good				Observation:
					There have been no changes since the last inspection. The work to be done
Rock Dike					through the CU4 Construction Contract has not been completed due to contract
	Good				issues.
Earthen	+				
Embankment	Good				
	1				
Construction Un					
		consist of 3,967 linear			
	d a crest elevation of st to Structure No.20	+3.5 ft. The shoreline	stabilization ext	ends	
IIIOIII Sile 22A we	St to Structure No.20				

Project No. / Name: BA-20 Jonathan Davis Wetland	Date of Inspection: 3/27/2007	Time: <u>9:30 am</u>
Structure No. Construction Unit No.3	Inspector(s): Richard,	<u>Trusclair</u>
Structure Description: Rock dike along Bayou Perot	Water Level Inside: <u>N/A</u>	Outside: Approx. 0.5 ft

Item	Condition	Pysical Damage	Corrosion	Photo #	Observations and Remarks
Signage and supports	Good			6	
Armored Plug	Good			6	Observation: There have been no changes since the last inspection. The work to be done
Rock Dike	Good			6	through the CU4 Construction Contract has not been completed due to contract issues.
Earthen Embankment	Good			6	Some erosion was noted beyond the west end of the Bayou Perot rock dike.
6 ft. top width and	tion: The rock dike of	consist of 13,088 linear +3.5 ft. The shoreline stal Waterway			